

CONNECTICUT RIVER BASIN

01185500 WEST BRANCH FARMINGTON RIVER NEAR NEW BOSTON, MA

LOCATION.--Lat 42°04'45", long 73°04'24", Berkshire County, Hydrologic Unit 01080207, on left bank 5 ft downstream from highway bridge, 0.3 mi downstream from Clam River, 1 mi south of New Boston, and at mile 65.0.

DRAINAGE AREA.--91.7 mi².

PERIOD OF RECORD.--May 1913 to current year. Prior to October 1948, published as Farmington River near New Boston.

REVISED RECORDS.--WSP 641: 1924(M). WSP 781: 1928(M). WSP 1231: 1914. WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 758.21 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Otis Reservoir 7.0 mi upstream on Fall River. High flow slightly affected by retarding reservoirs since 1966. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--86 years, 184 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,300 ft³/s, Aug. 19, 1955, gage height, 14.06 ft, from rating curve extended above 9,600 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 2.4 ft³/s, Aug. 20, 21, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,650 ft³/s, Mar. 22, gage height, 7.60 ft, maximum gage height, 8.36 ft, Jan. 18 (ice jam); minimum daily, 3.6 ft³/s, Aug. 11, 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	177	149	e64	136	425	350	73	110	142	5.8	9.2
2	14	163	138	e62	337	339	322	67	94	96	4.9	8.2
3	12	156	104	e78	650	298	279	62	83	89	6.3	7.0
4	10	156	68	e98	525	1300	222	81	71	167	12	5.9
5	9.3	138	63	e120	470	755	196	223	68	164	7.2	5.2
6	9.1	131	60	e110	381	534	170	224	65	111	5.6	7.3
7	9.1	129	59	e98	324	434	149	169	53	89	5.1	16
8	64	127	59	e90	237	346	129	155	47	65	5.2	13
9	109	127	69	e110	164	286	122	225	40	49	5.8	11
10	164	127	65	e350	146	250	115	174	40	50	4.2	37
11	184	156	63	e300	134	201	104	132	35	41	3.9	43
12	136	165	59	e260	141	163	113	108	31	29	4.4	26
13	97	153	56	e200	186	153	110	90	29	30	3.8	21
14	184	144	55	e170	153	149	101	78	33	28	8.8	16
15	191	142	57	e150	140	152	93	70	45	27	25	88
16	173	140	53	e170	136	120	90	60	33	24	24	623
17	287	142	55	e200	122	134	121	55	29	17	17	e1220
18	231	146	54	e240	200	243	130	51	36	17	12	e530
19	57	104	58	e300	234	283	120	539	30	21	8.7	e300
20	49	81	55	e260	180	221	115	1530	27	23	6.7	e200
21	42	129	53	e220	146	189	104	664	24	17	17	e250
22	38	124	92	e200	115	1980	99	392	22	15	26	e350
23	65	119	98	264	107	1110	154	300	20	14	15	e260
24	237	116	97	646	107	675	195	547	19	13	12	180
25	235	112	112	780	121	667	149	638	17	12	9.2	118
26	232	198	104	557	149	591	121	416	17	10	9.1	89
27	190	283	96	441	137	538	106	307	16	9.7	15	75
28	157	226	88	375	137	490	97	240	18	8.7	26	68
29	187	189	69	320	---	406	88	192	99	7.4	14	60
30	183	163	e64	e260	---	385	79	155	228	7.2	10	286
31	181	---	e60	221	---	377	---	127	---	6.4	10	---
TOTAL	3747.5	4463	2332	7714	6015	14194	4343	8144	1479	1399.4	339.7	4922.8
MEAN	121	149	75.2	249	215	458	145	263	49.3	45.1	11.0	164
MAX	287	283	149	780	650	1980	350	1530	228	167	26	1220
MIN	9.1	81	53	62	107	120	79	51	16	6.4	3.8	5.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1999, BY WATER YEAR (WY)

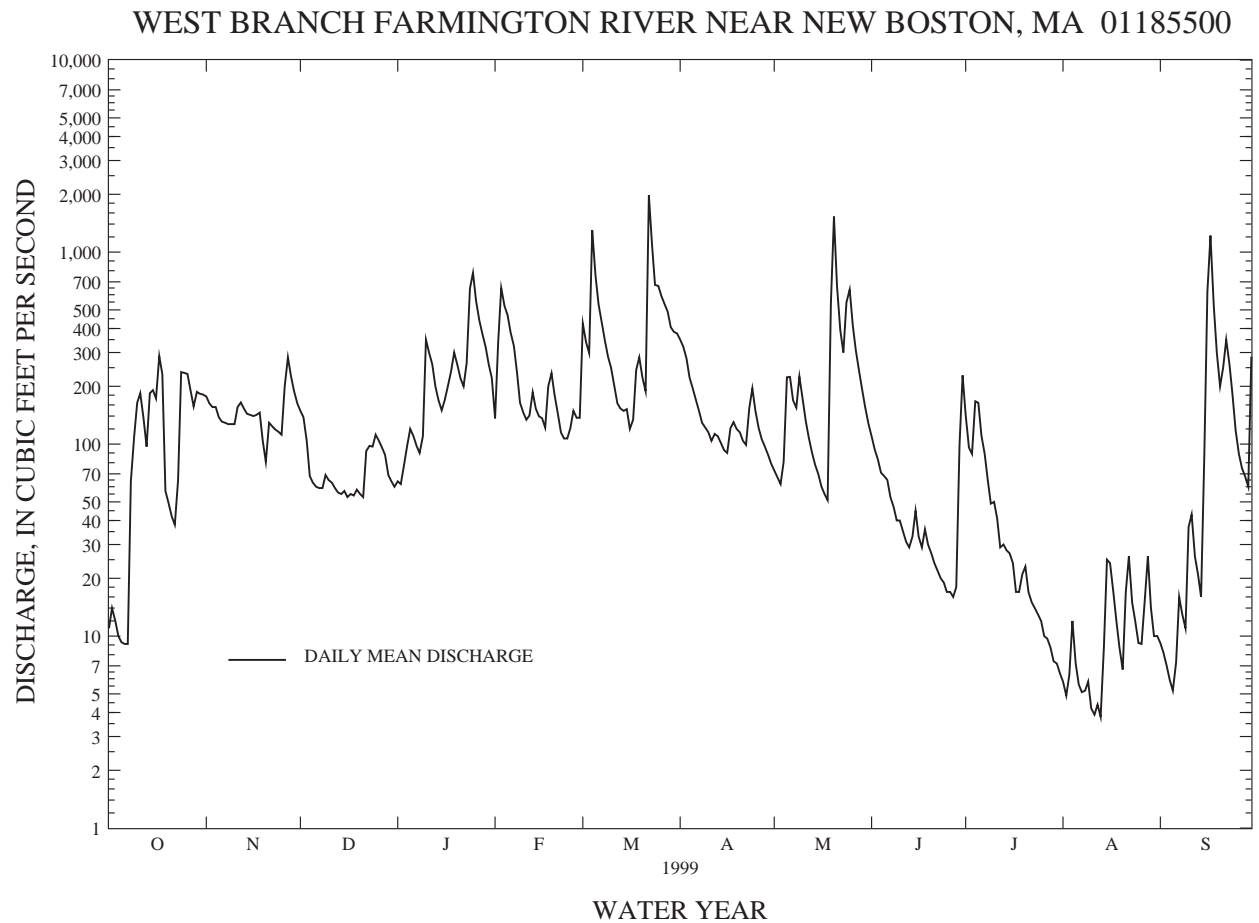
MEAN	142	209	197	183	166	303	407	218	128	80.1	86.3	90.2
MAX	774	817	563	529	608	947	934	627	479	290	1002	644
(WY)	1956	1928	1997	1996	1981	1936	1993	1984	1982	1945	1955	1938
MIN	19.9	27.0	31.1	20.1	34.7	88.5	96.1	61.6	23.9	9.26	5.68	8.81
(WY)	1915	1915	1918	1981	1980	1965	1985	1941	1964	1962	1957	1995

CONNECTICUT RIVER BASIN

01185500 WEST BRANCH FARMINGTON RIVER NEAR NEW BOSTON, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1913 - 1999	
ANNUAL TOTAL	68832.0		59093.4		184	
ANNUAL MEAN	189		162		341	
HIGHEST ANNUAL MEAN					66.1	
LOWEST ANNUAL MEAN					1928	
HIGHEST DAILY MEAN	1360	Mar 10	1980	Mar 22	16100	Aug 19 1955
LOWEST DAILY MEAN	6.7	Sep 1	3.8	Aug 13	2.4	Aug 20 1957
ANNUAL SEVEN-DAY MINIMUM	7.5	Aug 27	4.6	Aug 7	3.1	Sep 9 1957
INSTANTANEOUS PEAK FLOW			3650		34300	
INSTANTANEOUS PEAK STAGE			8.36		14.06	
INSTANTANEOUS LOW FLOW			3.6		Aug 11	
10 PERCENT EXCEEDS	389		350		401	
50 PERCENT EXCEEDS	146		110		115	
90 PERCENT EXCEEDS	12		11		26	

e Estimated



HOUSATONIC RIVER BASIN

01197000 EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MA

LOCATION.--Lat 42°28'10", long 73°11'49", Berkshire County, Hydrologic Unit 01100005, on right bank 250 ft downstream from Hubbard Avenue Bridge at Coltsville, 1.2 mi upstream from Unkamet Brook, and 2 mi northeast of Pittsfield. Prior to Nov. 8, 1994, at site 200 ft upstream.

DRAINAGE AREA.--57.6 mi².

PERIOD OF RECORD.--Discharge: March 1936 to current year. Prior to October 1945, published as Housatonic River at Coltsville.

Water-quality records: Water years 1963-65.

REVISED RECORDS.--WSP 851: 1936(M). WDR MA-RI-82-1: 1976-77, 1979-80. WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 993.49 ft above sea level. Prior to Nov. 8, 1994, at site 200 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharge, which are fair. Flow regulated by powerplants upstream and, since 1949, by Cleveland Brook Reservoir, usable capacity, 214,000,000 ft³, 5.4 mi upstream; regulation greater prior to 1955. Diversion upstream from Cleveland Brook Reservoir for municipal supply of Pittsfield since May 1950. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--63 years, 106 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,400 ft³/s, Sept. 21, 1938, gage height, 10.80 ft, from rating curve extended above 2,300 ft³/s on basis of computation of peak flow over dam; minimum daily, 4.4 ft³/s, Aug. 15, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1755, that of Sept. 21, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,560 ft³/s, Mar. 22, gage height, 3.95 ft; minimum daily, 10 ft³/s, Sept. 4, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	21	37	e22	60	204	292	39	46	48	13	14
2	20	21	37	22	142	187	266	36	45	37	12	13
3	16	22	36	28	357	143	238	34	42	35	14	12
4	15	22	34	39	259	723	216	37	39	96	14	10
5	15	22	32	37	185	404	183	147	37	78	13	10
6	15	20	31	31	159	198	139	141	38	44	13	13
7	16	19	32	29	142	142	120	71	39	79	12	16
8	33	19	35	27	129	111	110	60	36	43	12	17
9	46	19	41	48	117	105	95	108	31	30	13	16
10	65	20	36	68	115	99	87	98	31	36	13	25
11	103	51	31	73	110	94	77	75	28	29	13	26
12	62	54	28	68	116	92	74	65	22	25	14	19
13	42	38	25	59	138	89	69	54	21	23	12	17
14	65	30	25	49	101	89	58	44	21	23	35	16
15	88	28	25	48	81	93	53	35	23	20	38	16
16	65	28	25	71	81	90	53	32	22	19	23	86
17	52	28	26	77	80	102	60	30	21	18	18	500
18	48	28	26	99	91	155	70	38	23	16	16	187
19	46	26	24	188	99	207	61	217	21	18	15	90
20	45	28	26	159	75	148	56	989	19	19	14	56
21	37	33	30	131	65	135	52	338	19	17	15	41
22	34	31	61	113	48	1010	50	166	19	17	15	86
23	34	28	60	95	43	718	73	129	18	17	15	104
24	33	26	46	456	44	332	107	188	16	17	15	67
25	33	25	e40	483	41	281	72	292	18	16	15	48
26	32	62	e35	257	43	265	61	185	17	15	16	35
27	30	159	e32	158	42	252	64	149	15	14	18	26
28	24	77	30	123	51	281	57	102	21	13	19	25
29	25	46	30	104	---	291	54	69	83	14	15	23
30	23	38	29	88	---	314	52	57	102	14	14	66
31	22	---	23	61	---	274	---	49	---	13	14	---
TOTAL	1211	1069	1028	3311	3014	7628	3019	4074	933	903	498	1680
MEAN	39.1	35.6	33.2	107	108	246	101	131	31.1	29.1	16.1	56.0
MAX	103	159	61	483	357	1010	292	989	102	96	38	500
MIN	15	19	23	22	41	89	50	30	15	13	12	10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1999, BY WATER YEAR (WY)

MEAN	69.6	96.3	101	97.1	96.5	176	262	141	82.0	52.9	46.3	53.2
MAX	318	279	321	252	274	417	582	366	326	220	188	326
(WY)	1956	1956	1974	1949	1984	1979	1993	1984	1972	1945	1990	1938
MIN	19.9	19.1	31.2	15.5	16.0	50.4	66.3	37.8	25.4	12.9	14.9	14.3
(WY)	1965	1965	1981	1981	1980	1965	1985	1985	1964	1962	1980	1983

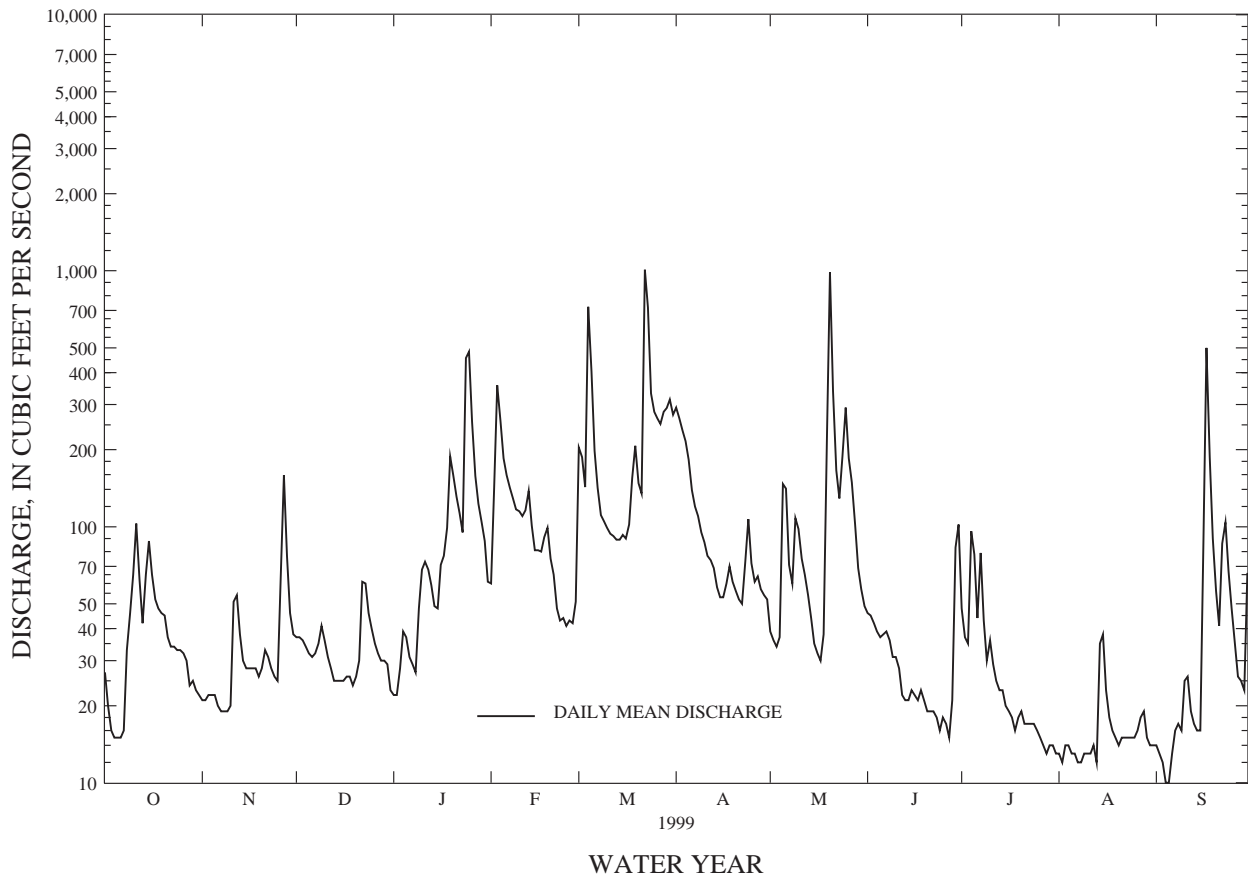
HOUSATONIC RIVER BASIN

01197000 EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1936 - 1999	
ANNUAL TOTAL	37010		28368		106	
ANNUAL MEAN	101		77.7		42.6	
HIGHEST ANNUAL MEAN					163	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	1010	Jun 14	1010	Mar 22	4460	Mar 18 1936
LOWEST DAILY MEAN	13	Aug 30	10	Sep 4	4.4	Aug 15 1936
ANNUAL SEVEN-DAY MINIMUM	16	Aug 27	12	Aug 31	9.5	Sep 11 1983
INSTANTANEOUS PEAK FLOW			1560	Mar 22	6400	Sep 21 1938
INSTANTANEOUS PEAK STAGE			3.95	Mar 22	10.80	Sep 21 1938
INSTANTANEOUS LOW FLOW			9.4	Sep 4		
10 PERCENT EXCEEDS	215		173		232	
50 PERCENT EXCEEDS	50		39		60	
90 PERCENT EXCEEDS	19		15		23	

e Estimated

EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MA 01197000



HOUSATONIC RIVER BASIN

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA

LOCATION.--Lat 42°13'55", long 73°21'19", Berkshire County, Hydrologic Unit 01100005, on left bank at upstream side of highway bridge at Van Deusenville, 0.5 mi upstream from Williams River, and 2 mi north of Great Barrington.

DRAINAGE AREA.--282 mi².

PERIOD OF RECORD.--Discharge: May 1913 to current year.

Water-quality records: Water years 1957-59, 1964, 1971, and 1980.

Suspended sediment records: Water years 1980, 1994-96 (discontinued).

REVISED RECORDS.--WSP 415: 1913-14. WSP 781: 1928(M). WSP 1051: 1928, 1933. WSP 1301: 1914-15(M), 1917-27(M), 1929-31(M). WDR MA-RI-83-1: 1980(P), 1982(P). WDR MA-RI-84-1: Drainage Area.

GAGE.--Water-stage recorder. Datum of gage is 683.04 ft above sea level. Prior to Oct. 1, 1931, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Regulation at low flow by powerplants upstream. High flow slightly affected by retarding reservoir since 1973. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--86 years, 526 ft³/s, 25.36 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s, Jan. 1, 1949, gage height, 12.08 ft, from rating curve extended above 6,400 ft³/s on basis of computations of flow over dams at gage heights 11.72 ft and 12.08 ft; minimum daily, 1.0 ft³/s, Oct. 18, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,420 ft³/s, Jan. 25, gage height, 6.57; minimum daily, 77 ft³/s, Aug. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	186	236	e120	e520	862	948	245	307	662	90	84
2	104	180	213	e130	e700	1070	952	228	266	391	88	83
3	101	187	215	153	1580	776	898	220	245	333	84	81
4	96	201	208	e190	1630	1780	853	220	225	449	83	80
5	95	200	198	e170	1340	2240	770	319	193	630	82	79
6	86	191	196	e160	1020	1750	689	490	164	419	83	83
7	80	181	186	e150	871	1140	624	447	153	409	83	104
8	131	180	191	e160	766	813	559	347	160	350	86	105
9	247	177	214	e220	653	739	505	366	145	248	86	127
10	325	176	207	e350	581	670	469	410	144	237	82	129
11	587	204	196	e310	542	620	409	358	140	222	77	147
12	455	275	182	e260	547	558	397	307	133	172	85	128
13	309	239	172	e250	644	489	378	270	123	154	82	105
14	268	209	169	e240	616	479	324	252	121	134	94	102
15	323	198	159	e320	524	499	284	221	128	129	191	99
16	311	191	161	e480	502	461	272	199	121	124	205	244
17	286	190	161	497	482	468	298	181	117	118	155	1720
18	259	182	160	470	530	560	341	190	120	117	116	1690
19	233	178	146	1330	624	658	337	285	118	108	108	896
20	217	188	144	1400	539	618	307	1900	115	139	100	508
21	203	208	144	1040	464	533	309	2300	110	120	97	359
22	207	195	201	810	373	1360	297	1520	105	112	100	446
23	215	184	269	725	e320	2650	353	868	102	105	100	596
24	227	180	229	1730	315	2410	505	850	103	103	94	495
25	228	171	188	3280	298	1610	479	1120	99	103	91	353
26	226	220	167	2620	294	1150	381	1050	89	95	94	283
27	220	476	166	1660	286	986	334	802	96	101	107	229
28	217	474	164	1120	301	929	314	679	106	93	106	213
29	233	340	158	888	---	971	294	548	834	89	101	195
30	216	275	159	742	---	991	266	435	1240	100	93	284
31	219	---	141	e620	---	978	---	349	---	94	88	---
TOTAL	7037	6636	5700	22595	17862	31818	14146	17976	6122	6660	3131	10047
MEAN	227	221	184	729	638	1026	472	580	204	215	101	335
MAX	587	476	269	3280	1630	2650	952	2300	1240	662	205	1720
MIN	80	171	141	120	286	461	266	181	89	89	77	79
CFSM	.80	.78	.65	2.58	2.26	3.64	1.67	2.06	.72	.76	.36	1.19
IN.	.93	.88	.75	2.98	2.36	4.20	1.87	2.37	.81	.88	.41	1.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1999, BY WATER YEAR (WY)

MEAN	306	465	524	519	498	906	1228	689	412	277	237	256
MAX	1170	2040	1588	1744	1319	2528	2646	1502	1312	1140	937	1601
(WY)	1978	1928	1974	1949	1984	1936	1920	1984	1972	1945	1928	1938
MIN	80.9	85.5	112	83.5	128	291	338	241	134	93.4	86.8	75.1
(WY)	1915	1965	1915	1931	1931	1941	1985	1985	1921	1962	1913	1913

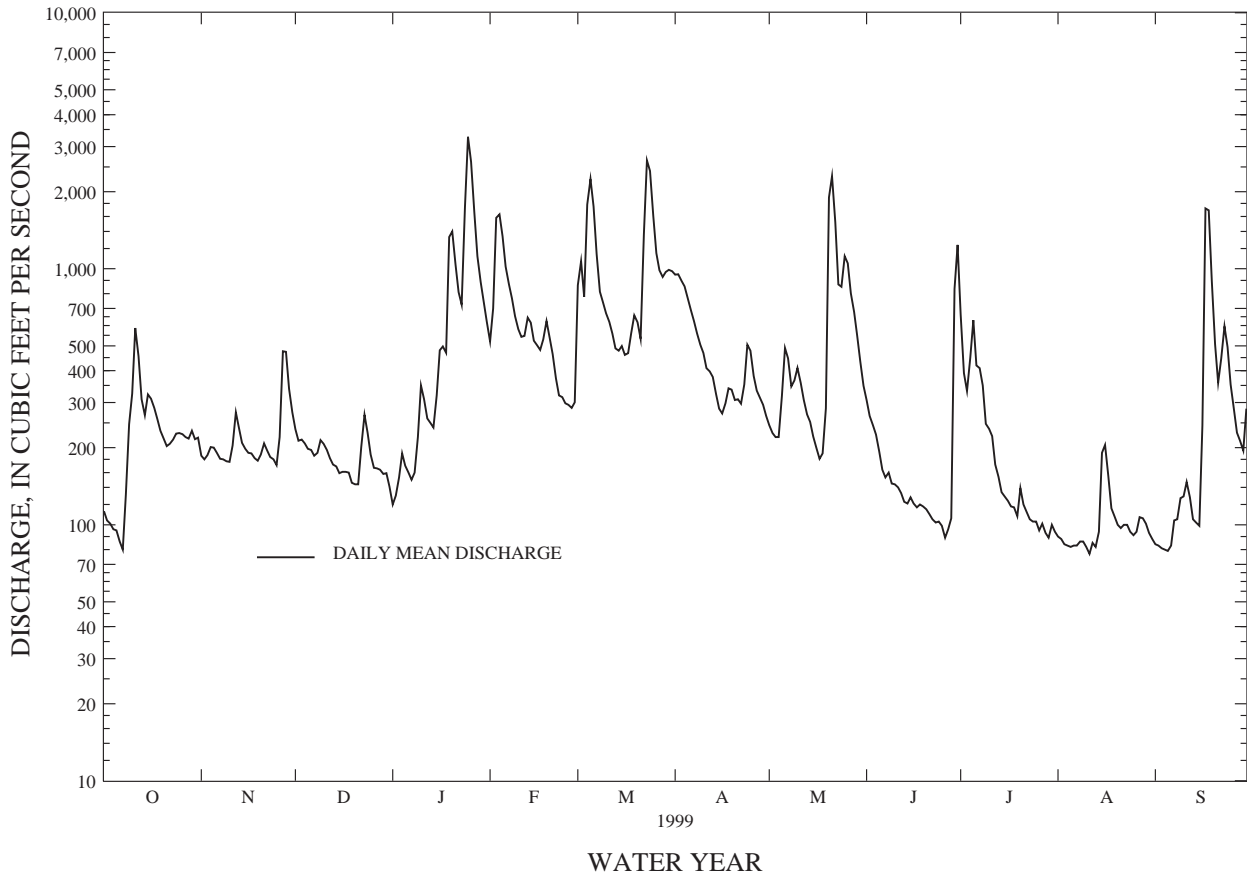
HOUSATONIC RIVER BASIN

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1913 - 1999	
ANNUAL TOTAL	177697		149730			
ANNUAL MEAN	487		410		526	
HIGHEST ANNUAL MEAN					962	
LOWEST ANNUAL MEAN					211	
HIGHEST DAILY MEAN	3800	Jun 16	3280	Jan 25	11100	Jan 1 1949
LOWEST DAILY MEAN	80	Oct 7	77	Aug 11	1.0	Oct 18 1914
ANNUAL SEVEN-DAY MINIMUM	91	Aug 28	83	Aug 31	40	Aug 10 1913
INSTANTANEOUS PEAK FLOW			3420	Jan 25	12200	Jan 1 1949
INSTANTANEOUS PEAK STAGE			6.57	Jan 25	12.08	Jan 1 1949
INSTANTANEOUS LOW FLOW			57	Jun 26		
ANNUAL RUNOFF (CFSM)	1.73		1.45		1.87	
ANNUAL RUNOFF (INCHES)	23.44		19.75		25.36	
10 PERCENT EXCEEDS	939		937		1150	
50 PERCENT EXCEEDS	299		229		334	
90 PERCENT EXCEEDS	105		98		125	

e Estimated

HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA 01197500



HUDSON RIVER BASIN

01331500 HOOSIC RIVER AT ADAMS, MA

LOCATION.--Lat 42°36'40", long 73°07'28", Berkshire County, Hydrologic Unit 02020003, on left bank at Adams, 500 ft downstream from Dry Brook, and 0.4 mi upstream from Pecks Brook.

DRAINAGE AREA.--46.7 mi².

PERIOD OF RECORD.--Discharge: October 1931 to current year.
Water-quality records: Water years 1967-69.

REVISED RECORDS.--WDR MA-NH-RI-VT-73-1: 1971-72. WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 828.01 ft above sea level. Prior to Oct. 1, 1964, datum was 9.00 ft higher and Oct. 1, 1964, to May 29, 1974, 8.00 ft higher, at site 500 ft upstream.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diversion upstream for municipal supply of Adams. Some diurnal fluctuation by mill upstream prior to 1961. Flow regulated by Cheshire Reservoir 5.1 mi upstream.

AVERAGE DISCHARGE.--68 years, 89.7 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,080 ft³/s, Sept. 21, 1938, gage height, 9.25 ft, site and datum then in use, from rating curve extended above 1,100 ft³/s on basis of computation of peak flow over dam; minimum daily, 8.0 ft³/s, Aug. 31, Sept. 1, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 806 ft³/s, Jan. 24, gage height, 7.73 ft; minimum, 10 ft³/s, Aug. 4-6, 11-13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	21	44	e25	83	219	220	46	53	29	12	12
2	15	21	42	e24	187	120	215	44	49	76	11	12
3	15	20	39	32	306	129	189	40	46	76	11	12
4	15	19	38	41	195	413	170	42	43	114	11	12
5	15	19	35	36	155	213	141	102	39	69	11	11
6	14	19	35	31	132	154	125	91	36	52	11	12
7	14	19	33	e29	118	134	123	71	33	94	11	15
8	41	19	35	30	105	113	109	70	30	51	12	14
9	38	19	41	59	94	109	98	93	29	41	12	13
10	56	19	36	71	93	102	88	70	28	42	11	19
11	67	63	34	57	86	94	79	60	26	35	11	18
12	44	50	32	51	97	86	75	53	24	33	11	15
13	38	36	31	48	118	82	67	49	23	29	10	14
14	61	32	29	48	85	80	63	45	23	27	24	14
15	66	33	29	57	76	79	60	43	24	26	43	13
16	45	31	29	72	79	75	57	40	21	24	24	87
17	39	31	29	64	75	88	74	38	20	22	19	264
18	36	31	29	84	84	112	78	37	22	23	18	90
19	33	29	28	193	82	108	68	159	21	24	17	55
20	29	33	29	126	73	88	70	361	20	23	16	43
21	28	40	30	94	67	84	64	151	19	20	16	52
22	25	35	144	89	52	447	60	110	18	19	17	94
23	24	32	75	89	51	276	79	98	17	18	16	90
24	23	31	51	510	51	193	84	141	17	17	15	57
25	24	28	42	354	49	180	67	153	17	17	15	47
26	22	67	37	206	50	163	63	115	17	15	15	41
27	21	99	e35	161	48	157	57	95	16	15	16	36
28	22	57	e33	140	56	181	53	82	18	14	17	34
29	27	47	e32	121	---	202	51	73	51	13	15	33
30	24	43	e31	101	---	208	48	65	55	13	14	115
31	22	---	e27	86	---	199	---	58	---	13	13	---
TOTAL	959	1043	1214	3129	2747	4888	2795	2695	855	1084	475	1344
MEAN	30.9	34.8	39.2	101	98.1	158	93.2	86.9	28.5	35.0	15.3	44.8
MAX	67	99	144	510	306	447	220	361	55	114	43	264
MIN	14	19	27	24	48	75	48	37	16	13	10	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1999, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	52.5	78.3	86.3	87.6
MAX	217	213	190	211
(WY)	1956	1956	1974	1979
MIN	14.1	13.3	35.4	18.7
(WY)	1965	1965	1965	1981

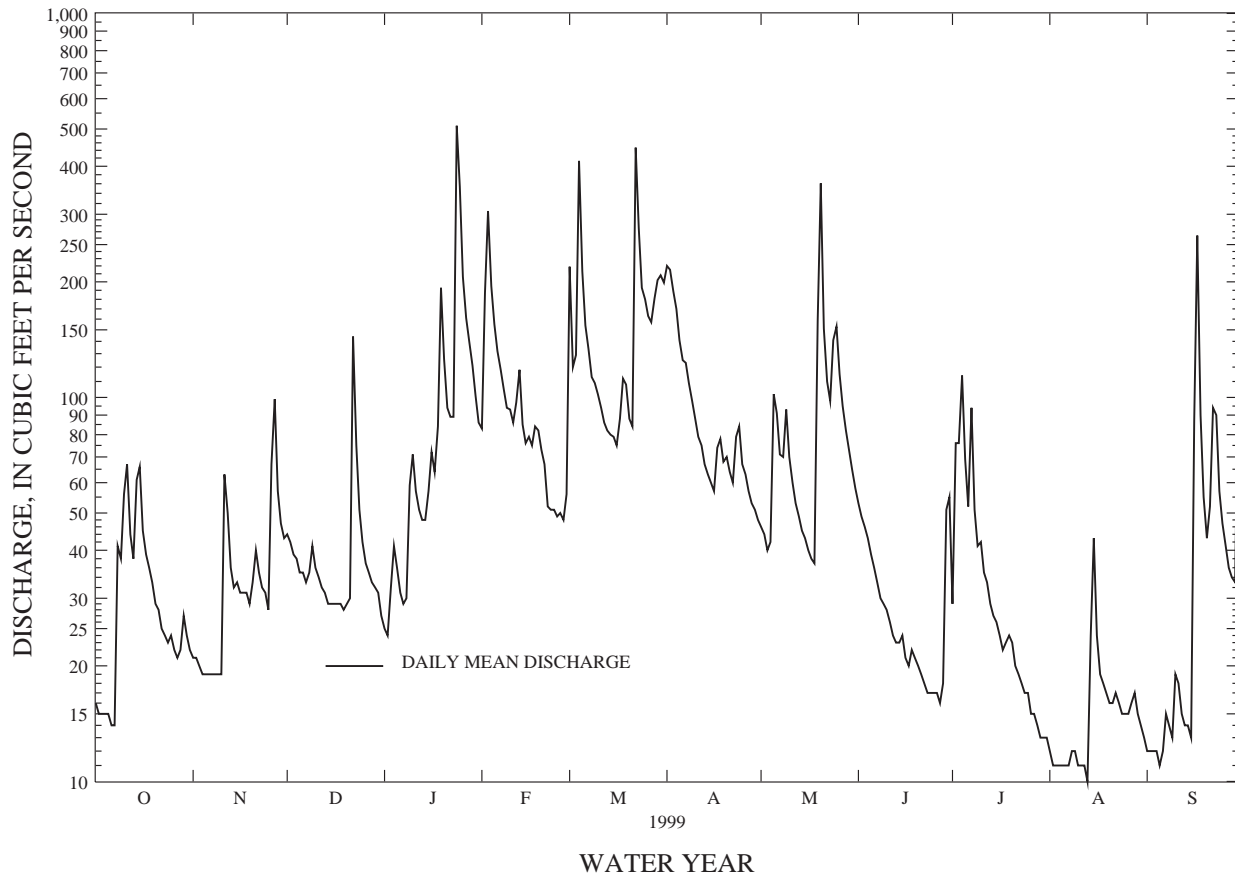
HUDSON RIVER BASIN

01331500 HOOSIC RIVER AT ADAMS, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1932 - 1999	
ANNUAL TOTAL	28231		23228			
ANNUAL MEAN	77.3		63.6		89.7	
HIGHEST ANNUAL MEAN					130	1938
LOWEST ANNUAL MEAN					41.2	1965
HIGHEST DAILY MEAN	626	Jan 8	510	Jan 24	2410	Mar 18 1936
LOWEST DAILY MEAN	14	Sep 19	10	Aug 13	8.0	Aug 31 1968
ANNUAL SEVEN-DAY MINIMUM	15	Sep 14	11	Aug 1	8.8	Sep 7 1980
INSTANTANEOUS PEAK FLOW			806	Jan 24	5080	Sep 21 1938
INSTANTANEOUS PEAK STAGE			7.73	Jan 24	9.25	Sep 21 1938
INSTANTANEOUS LOW FLOW			10	Aug 4		
10 PERCENT EXCEEDS	160		136		191	
50 PERCENT EXCEEDS	48		42		56	
90 PERCENT EXCEEDS	18		15		22	

e Estimated

HOOSIC RIVER AT ADAMS, MA 01331500



HUDSON RIVER BASIN

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MA

LOCATION.--Lat 42°42'01", long 73°09'34", Berkshire County, Hydrologic Unit 02020003, on left bank 0.3 mi downstream from Sherman Brook and 2.7 mi east of junction of U.S. Highway 7 and State Highway 2 in Williamstown.

DRAINAGE AREA.--126 mi².

PERIOD OF RECORD.--Discharge: July 1940 to current year.
Water-quality records: Water years 1953-54, 1957-58, 1967-69.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 616.11 ft above sea level, (U.S. Army Corps of Engineers benchmark). Prior to June 6, 1979, at site 1.2 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to 1966, slight diurnal fluctuation at low flow caused by mills upstream. Some regulation by Cheshire Reservoir 16 mi upstream. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--59 years, 272 ft³/s, 29.33 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s, Dec. 31, 1948, gage height, 14.85 ft, former site and datum, from rating curve extended above 4,300 ft³/s on basis of contracted-opening measurement of peak flow; minimum, 5.8 ft³/s, Aug. 30, 31, Oct. 26, 1940; minimum daily, 24 ft³/s, Sept. 9, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,320 ft³/s, Jan. 24, gage height, 8.74 ft; minimum, 38 ft³/s, Sept. 5, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	66	148	e66	218	639	892	145	143	90	46	45
2	52	64	139	e70	524	352	912	137	131	232	44	44
3	50	63	129	e90	1030	327	778	130	122	242	43	43
4	47	62	121	e110	595	1670	728	132	115	442	44	42
5	46	62	112	e94	447	724	594	223	105	248	43	41
6	46	62	110	e82	365	461	516	228	95	159	44	42
7	46	61	105	e76	317	376	542	182	90	227	45	48
8	119	61	108	e86	279	310	488	175	84	145	47	52
9	134	60	127	e130	250	292	429	249	81	128	48	51
10	159	58	112	e190	244	271	349	201	86	121	45	70
11	202	224	106	e160	225	251	302	172	78	103	44	69
12	124	172	97	e130	255	230	277	156	72	92	45	53
13	100	121	94	e110	334	218	250	145	67	81	42	48
14	169	104	91	e100	236	213	229	135	69	75	74	46
15	202	106	87	e150	213	215	214	127	80	74	181	45
16	138	101	87	273	222	203	205	119	72	71	102	360
17	111	102	91	243	212	234	244	113	68	67	65	1320
18	99	104	88	233	238	318	275	109	73	73	72	379
19	90	95	82	748	230	320	240	541	68	72	59	186
20	83	108	87	409	202	259	258	1380	64	72	54	135
21	77	137	88	287	186	248	235	493	62	65	56	151
22	74	115	536	267	140	1850	212	326	64	60	59	327
23	70	103	286	262	142	1010	256	265	61	57	58	346
24	68	100	185	1860	151	626	263	379	60	59	54	200
25	66	93	145	1360	145	551	215	438	60	56	52	154
26	66	259	120	627	145	490	202	347	61	57	50	130
27	63	408	e110	449	140	476	188	305	58	55	53	113
28	67	215	e100	373	165	633	173	247	82	56	57	104
29	82	172	e95	306	---	753	165	209	133	51	51	99
30	74	151	e92	248	---	764	155	181	154	58	47	462
31	70	---	e76	212	---	745	---	159	---	51	45	---
TOTAL	2847	3609	3954	9801	7850	16029	10786	8148	2558	3439	1769	5205
MEAN	91.8	120	128	316	280	517	360	263	85.3	111	57.1	174
MAX	202	408	536	1860	1030	1850	912	1380	154	442	181	1320
MIN	46	58	76	66	140	203	155	109	58	51	42	41
CFSM	.73	.95	1.01	2.51	2.23	4.10	2.85	2.09	.68	.88	.45	1.38
IN.	.84	1.07	1.17	2.89	2.32	4.73	3.18	2.41	.76	1.02	.52	1.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	172	257	272	250	244	447	672	372	214	132	114	121
MAX	618	544	714	591	765	1038	1178	872	636	393	416	454
(WY)	1978	1956	1974	1949	1981	1979	1969	1943	1972	1945	1976	1960
MIN	41.0	46.5	118	60.8	75.3	139	253	144	81.0	60.4	48.2	34.5
(WY)	1965	1965	1962	1981	1980	1965	1995	1987	1965	1962	1980	1980

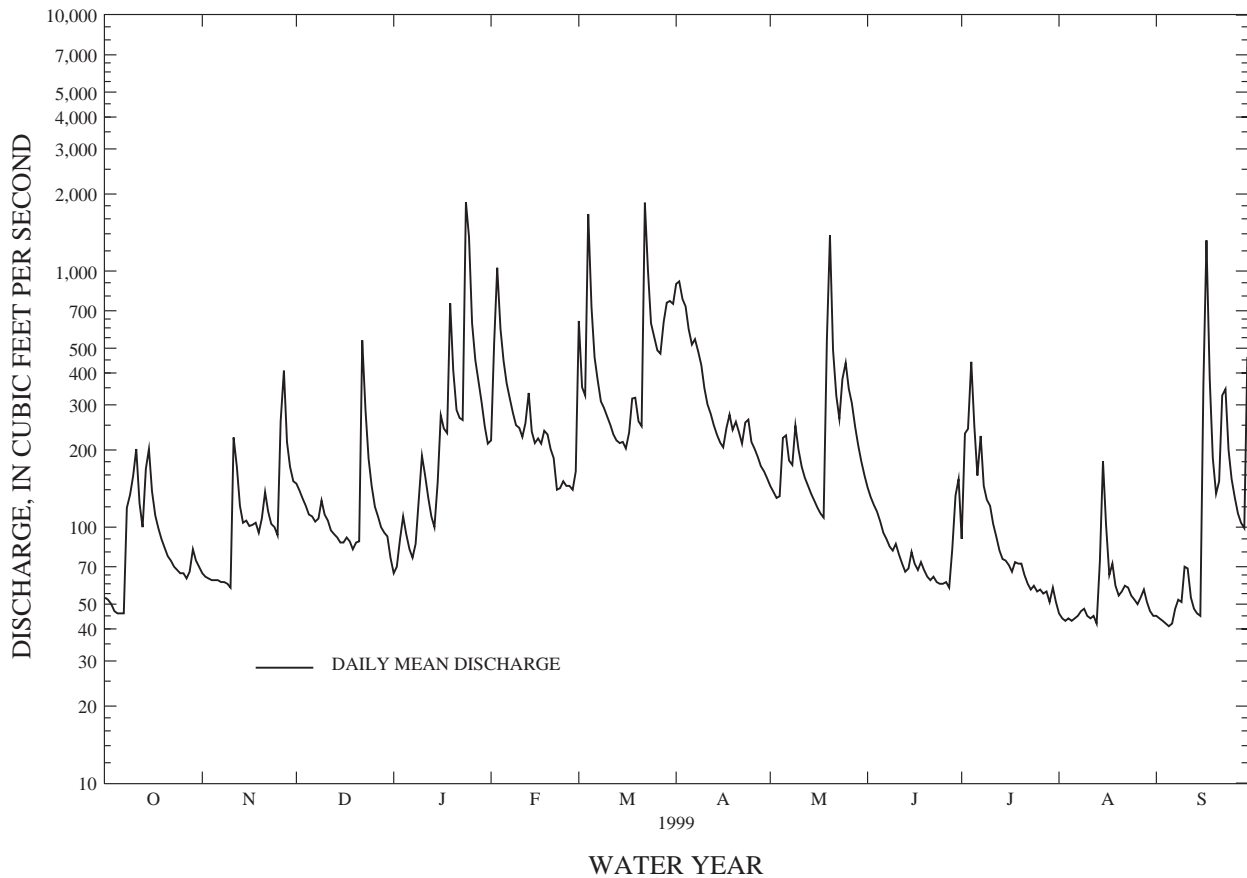
HUDSON RIVER BASIN

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	88965		75995			
ANNUAL MEAN	244		208		272	
HIGHEST ANNUAL MEAN					368	
LOWEST ANNUAL MEAN					135	
HIGHEST DAILY MEAN	2570	Jan 9	1860	Jan 24	10400	Dec 31 1948
LOWEST DAILY MEAN	46	Aug 10	41	Sep 5	24	Sep 9 1980
ANNUAL SEVEN-DAY MINIMUM	49	Oct 1	43	Aug 31	25	Sep 9 1980
INSTANTANEOUS PEAK FLOW			3320		13000	
INSTANTANEOUS PEAK STAGE			8.74		14.85	
INSTANTANEOUS LOW FLOW			38		5.8	
ANNUAL RUNOFF (CFSM)	1.93		1.65		2.16	
ANNUAL RUNOFF (INCHES)	26.27		22.44		29.33	
10 PERCENT EXCEEDS	457		448		580	
50 PERCENT EXCEEDS	138		128		165	
90 PERCENT EXCEEDS	53		52		66	

e Estimated

HOOSIC RIVER NEAR WILLIAMSTOWN, MA 01332500



HUDSON RIVER BASIN

01333000 GREEN RIVER AT WILLIAMSTOWN, MA

LOCATION.--Lat 42°42'32", long 73°11'50", Berkshire County, Hydrologic Unit 02020003, on left bank 0.1 mi upstream from bridge on State Highway 2 at Williamstown and 0.8 mi upstream from mouth.

DRAINAGE AREA.--42.6 mi².

PERIOD OF RECORD.--Discharge: September 1949 to current year.
Water-quality records: Water years 1967-69.

REVISED RECORDS.--WDR MA-RI-84-1: 1977-78 (P), 1979, 1980-83 (P).

GAGE.--Water-stage recorder. Elevation of gage is 615 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation at times caused by mill upstream.

AVERAGE DISCHARGE.--50 years, 82.1 ft³/s, 26.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,060 ft³/s, Dec. 21, 1973, gage height, 5.68 ft in gage well, from rating curve extended above 750 ft³/s on basis of slope-area measurement at gage height 4.94 ft; maximum gage height, 6.35 ft, Mar. 13, 1977, from floodmarks, gage height in well unknown; minimum discharge, 3.1 ft³/s, Sept. 20, 22, 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 31, 1948, reached a stage of about 7.5 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,660 ft³/s, Jan. 18, gage height, 4.39 ft; minimum, 4.5 ft³/s, Aug. 4-7, 10, 11, 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	13	44	e21	107	243	186	41	55	18	6.3	6.7
2	5.5	13	40	e22	336	111	198	39	49	24	5.6	6.6
3	5.2	12	38	e25	440	161	190	37	44	22	5.2	6.4
4	4.9	12	35	e30	282	509	180	39	39	73	4.8	6.0
5	5.0	12	33	e27	226	265	153	70	35	30	4.8	5.7
6	5.0	12	33	e22	191	204	137	59	33	24	4.8	7.6
7	4.9	11	32	e23	167	167	131	52	31	27	5.2	e11
8	25	11	33	e28	145	136	124	57	28	20	5.3	11
9	25	11	35	e40	127	130	116	94	27	18	5.7	12
10	35	11	31	e56	118	120	100	70	27	19	4.6	16
11	38	35	30	e47	104	107	86	62	25	16	4.7	13
12	25	28	28	e39	112	93	80	58	23	15	5.2	9.5
13	20	24	28	e34	121	83	72	53	22	14	4.5	8.1
14	33	22	27	e29	89	80	e65	48	22	13	19	7.4
15	39	25	25	e50	83	79	61	44	25	13	80	7.2
16	28	22	25	e77	83	75	60	40	21	12	23	233
17	24	23	27	69	78	87	67	37	20	11	14	661
18	22	23	25	298	100	105	63	35	22	12	15	214
19	20	21	24	381	88	94	58	165	19	15	11	121
20	18	24	25	193	74	81	60	394	18	13	9.7	80
21	18	27	25	151	67	78	57	208	18	11	9.9	80
22	17	25	110	152	46	347	54	162	20	10	11	142
23	16	24	69	172	49	245	67	137	17	9.7	9.7	151
24	15	23	e52	993	60	206	65	155	16	9.6	8.5	103
25	14	22	e45	623	51	192	57	142	15	9.1	7.8	77
26	14	76	e39	364	50	169	56	133	15	8.1	7.9	62
27	13	90	e35	267	45	156	52	119	13	7.9	15	53
28	14	60	e33	212	62	168	49	98	22	7.2	12	46
29	17	51	e30	169	---	180	46	81	33	6.7	9.3	41
30	14	46	e28	134	---	179	43	70	26	9.1	7.7	147
31	13	---	e23	103	---	170	---	62	---	7.1	7.1	---
TOTAL	554.0	809	1107	4851	3501	5020	2733	2861	780	504.5	344.3	2345.2
MEAN	17.9	27.0	35.7	156	125	162	91.1	92.3	26.0	16.3	11.1	78.2
MAX	39	90	110	993	440	509	198	394	55	73	80	661
MIN	4.9	11	23	21	45	75	43	35	13	6.7	4.5	5.7
CFSM	.42	.63	.84	3.67	2.94	3.80	2.14	2.17	.61	.38	.26	1.84
IN.	.48	.71	.97	4.24	3.06	4.38	2.39	2.50	.68	.44	.30	2.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1999, BY WATER YEAR (WY)

	44.9	77.1	92.7	82.7	82.6	144	204	112	60.9	31.4	26.0	28.5
MEAN	44.9	77.1	92.7	82.7	82.6	144	204	112	60.9	31.4	26.0	28.5
MAX	222	171	259	219	239	376	390	251	256	124	147	158
(WY)	1978	1956	1974	1979	1984	1979	1969	1984	1972	1996	1975	1960
MIN	5.33	6.71	24.8	11.0	14.6	33.6	70.5	32.4	18.2	8.30	5.61	4.09
(WY)	1965	1965	1965	1981	1980	1965	1995	1987	1965	1993	1964	1964

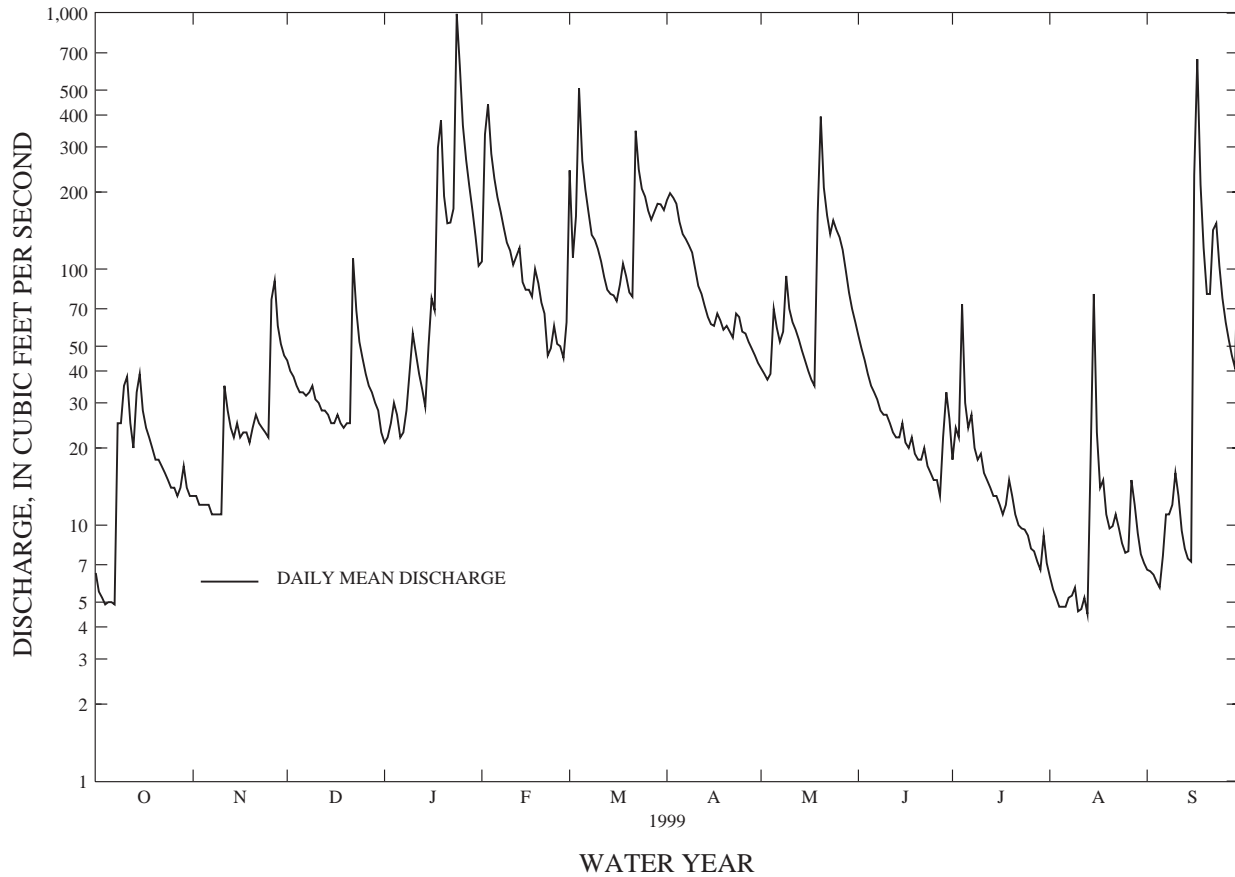
HUDSON RIVER BASIN

01333000 GREEN RIVER AT WILLIAMSTOWN, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1949 - 1999	
ANNUAL TOTAL	22673.4		25410.0		82.1	
ANNUAL MEAN	62.1		69.6		126	
HIGHEST ANNUAL MEAN					1975	
LOWEST ANNUAL MEAN					31.7	
HIGHEST DAILY MEAN	470	Jan 8	993	Jan 24	2200	Dec 21 1973
LOWEST DAILY MEAN	4.9	Oct 4	4.5	Aug 13	3.2	Sep 20 1964
ANNUAL SEVEN-DAY MINIMUM	5.3	Oct 1	5.0	Aug 5	3.4	Sep 19 1964
INSTANTANEOUS PEAK FLOW			1660	Jan 18	4060	Dec 21 1973
INSTANTANEOUS PEAK STAGE			4.39	Jan 18	6.35	Mar 13 1977
INSTANTANEOUS LOW FLOW			4.5	Aug 13	3.1	Sep 20 1964
ANNUAL RUNOFF (CFSM)	1.46		1.63		1.93	
ANNUAL RUNOFF (INCHES)	19.80		22.19		26.18	
10 PERCENT EXCEEDS	132		168		185	
50 PERCENT EXCEEDS	38		35		48	
90 PERCENT EXCEEDS	8.6		8.0		11	

e Estimated

GREEN RIVER AT WILLIAMSTOWN, MA 01333000



DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in a table of discharge measurements at low-flow partial-record stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a second table.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*).

Discharge measurements made at miscellaneous sites October 1998 through September 1999

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
IPSWICH RIVER BASIN						
01101244 Ipswich River	Ipswich Bay (Atlantic Ocean)	Lat 42°33'40", long 71°05'40", Middlesex County, 5 ft downstream of bridge on Mill Street, 2.1 mi southwest of North Reading, MA.	18.5	1997-98	11-19-98 5-25-99 6-23-99 9-10-99	7.31 20.9 .09 .00
01101345 Ipswich River	do.	Lat 42°33'13", long 71°08'39", Middlesex County, about 70 feet upstream of bridge on Route 28, and 1.7 mi southwest of North Reading, MA.	18.8	1997-98	4-16-99 5- 4-99	13.3 6.01
01101400 Martins Brook	Ipswich River	Lat 42°39'17", long 70°54'54", Middlesex County, about 50 ft downstream from bridge at Park Street, about 150 ft upstream of juncture with Ipswich River, 1.75 mi west of North Reading, MA.	3.30	1997-98	7-20-99	.24
01101510 Norris Brook	do.	Lat 42°33'14", long 71°00'15", Essex County, 5 ft downstream from bridge at Russell Street, about 5,000 ft upstream of juncture with Ipswich River, 3.9 mi east of North Reading, MA.	4.10	1997-98	4-16-99	.93
01101525 Ipswich River	Ipswich Bay (Atlantic Ocean)	Lat 42°34'40", long 70°59'37", Essex County, about 1,800 ft downstream from bridge on Route 114, and 2.8 mi southeast of Middleton, MA.	52.0	1997-98	4-16-99 5- 4-99 5-27-99 6-23-99	45.8 25.2 64.9 3.42
01101700 Boston Brook	Ipswich River	Lat 42°36'40", long 70°59'55", Essex County, about 100 ft downstream from bridge at Topsfield Road, about 2,500 ft upstream of juncture with Ipswich River, 1.7 mi northwest of Middleton, MA.	10.8	1997-98	7-14-99	.02
01101740 Fish Brook	do.	Lat 42°38'93", long 70°59'20", Essex County, about 400 ft downstream from bridge at Lockwood Lane, about 1.7 mi upstream of juncture with Ipswich River, 2.0 mi west of Topsfield, MA.	14.0	1997-98	4-16-99	.93
01101800 Ipswich River	Ipswich Bay (Atlantic Ocean)	Lat 42°37'03", long 70°56'32", Essex County, about 2,000 ft downstream of bridge on Route 1, and 1.25 mi southeast of Topsfield, MA.	98.7	1997-98	12- 3-98 6- 4-99 6-25-99 9- 9-99	56.4 47.2 7.2 1.97
01101900 Howlett Brook	Ipswich River	Lat 42°34'47", long 71°08'22", Essex County, 50 ft downstream from bridge at Topsfield Road, about 1,000 ft upstream of juncture with Ipswich River, 2 mi east of Topsfield, MA.	10.9	1997-98	7-13-99	.28
01102008 Ipswich River	Ipswich Bay (Atlantic Ocean)	Lat 42°39'29", long 70°51'45", Essex County, about 500 ft downstream from bridge at Mill Street, 1.9 mi southwest of Ipswich, MA.	130	1997-98	4-16-99 6-30-99	132 6.64

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites October 1998 through September 1999--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
MYSTIC RIVER BASIN						
01102460 Aberjona River	Mystic River	Lat 42°29'29", long 71°07'46", Middlesex County, at downstream side of bridge on Salem Street near Woburn, MA.	6.91	1973-74 1985-86	5-18-99 6-15-99 6-29-99 7-27-99 9- 2-99	3.33 2.15 .95 3.13 .61
01102474 Aberjona River	do.	Lat 42°28'10", long 71°07'32", Middlesex County, at Washington Street, 2.2 mi south from Route 128, upstream side bridge, near Winchester, MA.	11.9	1967 1973-74	5-18-99 6-15-99 6-29-99 7-26-99 9- 2-99	4.36 2.60 1.33 5.99 .43
01103015 Mill Brook	do.	Lat 42°25'20", long 71-08'59", Middlesex County, 500 ft upstream from mouth, at Arlington, MA.	5.3 ^c	1973-74 1989-91	5-19-99 6-16-99 7- 1-99 7-27-99 8-25-99	5.35 1.08 1.36 .75 .60
01103017 Mystic River	Boston Harbor	Lat. 42°25'14", long 71°08'36", Middlesex County, at High Street bridge (Route 60), upstream side, at Medford, MA.	--	--	5-19-99	123
01103025 Alewife Brook	Mystic River	Lat. 42°24'25", long 71-07'04", Middlesex County, at Broadway, 0.6 mi upstream from mouth, downstream side bridge near Arlington, MA.	8.5 ^c	1973-74	5-20-99 6-17-99 6-30-99 7-28-99 9- 2-99	13.0 5.86 1.38 2.20 1.91
CHARLES RIVER BASIN						
01103110 Charles River	Boston Harbor (Atlantic Ocean)	Lat 42°09'51", long 71°30'28", Norfolk County, 0.1 mi north of inflow into Cedar Swamp Pond. 1.8 mi northeast of Milford, MA.	--	--	7- 7-99 8-27-99 9-24-99	0.04 .03 .43
01103120 Charles River	do.	Lat 42°08'37", long 71°30'49", Norfolk County, at culvert on Main Street, 0.5 mi northeast of Milford, MA.	--	1967	8-27-99	.66
01103140 Charles River	do.	Lat 42°06'12", long 71°29'59", Norfolk County, at bridge on Hartford Avenue, 0.2 mi west of South Milford, MA.	--	--	7-17-99 8-26-99 9-24-99	2.42 1.18 5.84
01103200 Charles River	do.	Lat 42°05'38", long 71°28'56", Norfolk County, at bridge on Depot Street, 800 ft downstream from Box Pond, 0.6 mi northwest of Bellingham, MA.	14.5	1967-70 1982, 1989-90	7-14-99	1.75
011032053 Charles River	do.	Lat 42°05'39", long 71°29'49", Norfolk County, at culvert on North Main Street, 0.5 mi north of Bellingham, MA.	--	--	7-14-99 8-25-99 9-24-99	2.92 2.35 11.7
011032056 Charles River	do.	Lat 42°05'51", long 71°27'34", Norfolk County, at bridge on High Street, 1.1 mi northwest of Bellingham, MA.	--	--	8-26-99 9-24-99	5.40 14.6
01103206 Charles River	do.	Lat 42°07'14", long 71°27'11", Norfolk County, 200 ft downstream from bridge on Maple Street, at North Bellingham, MA.	--	1982-83	7-17-99 8-26-99 9-24-99	2.25 4.74 16.3
01103210 Stall Brook	Charles River	Lat 42°07'26", long 71°27'20", Norfolk County, at culvert on State Highway 126, 0.2 mi north of North Bellingham, MA.	3.79	1968-71, 1983	7-17-99 8-26-99 9-24-99	.02 .01 3.70
01103217 Hopping Brook	do.	Lat 42°08'31", long 71°27'21", Norfolk County, at culvert on West Street, 1.2 mi west of West Medway, MA.	10.0	1968-71, 1983, 1989	7-17-99 8-26-99 9-24-99	.11 .01 6.02
01103225 Miscoe Brook	Mine Brook	Lat 42°03'21", long 71°26'00", Norfolk County, at culvert on Washington Street, 2.6 mi southwest of Franklin, MA.	--	1968-71, 1983	7-14-99 8-25-99 9-23-99	.08 .11 3.19

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites October 1998 through September 1999--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
<i>CHARLES RIVER BASIN--Continued</i>						
01103234 Mine Brook	Charles River	Lat 42°05'03", long 71°24'53", Norfolk County, at culvert on Beaver Street, 0.9 mi west of Franklin, MA.	--	1983	8-25-99 9-23-99	0.56 8.52
01103235 Mine Brook	do.	Lat 42°03'42", long 71°25'43", Norfolk County, at bridge on Grove Street, 1.5 mi west of Franklin, MA.	--	1967, 1983, 1989	7-14-99 8-25-99 9-23-99	1.78 1.10 9.06
01103240 Mine Brook	do.	Lat 42°07'29", long 71°25'52", Norfolk County, at bridge on Pond Street, 3.4 mi northwest of Franklin, MA.	14.1	1968-70, 1983, 1989-91	7-13-99 8-26-99 9-23-99	1.84 .76 22.4
011032515 Chicken Brook	do.	Lat 42°08'50", long 71°25'41", Norfolk County, at culvert on Winthrop Street, 0.6 mi northwest of West Medway, MA.	--	--	7-17-99 8-26-99 9-23-99	.12 0 2.62
01103260 Charles River	Boston Harbor (Atlantic Ocean)	Lat 42°08'12", long 71°25'08", Norfolk County, at bridge on Shaw Street, at south limits of West Medway, MA.	60.1	1968-71, 1982-83	8-26-99 9-23-99	4.43 59.3
01103277 Charles River	do.	Lat 42°08'18", long 71°23'53", Norfolk County, at bridge on Sanford Street, 0.4 mi southwest of Medway, MA.	--	1967, 1983	7-13-99	8.10
01103292 Eagle Brook	Mill River	Lat 42°04'23", long 71°20'57", Norfolk County, at bridge on State Highway 140, 300 ft below outlet of Lake Pearl, 1.2 mi west of Wrentham, MA.	--	1967, 1983	7-12-99 8-25-99 9-22-99	1.95 .89 14.6
01103295 Mill River	Charles River	Lat 42°05'56", long 71°21'10", Norfolk County, 200 ft below outlet of Bush Pond, 0.8 mi south of City Mills, MA.	--	--	7-12-99 8-26-99 9-22-99	4.14 2.01 20.0
01103300 Mill River	do.	Lat 42°07'21", long 71°21'59", Norfolk County, at bridge on Miller Street, 0.9 mi above mouth, 2.1 mi west of Norfolk, MA.	13.8	1968-69, 1971, 1983, 1989	7-13-99 8-27-99 9-22-99	5.33 2.90 29.6
01103305 Charles River	Boston Harbor (Atlantic Ocean)	Lat 42°07'59", long 71°21'46", Norfolk County, 150 ft upstream from bridge on Myrtle Street, 2.5 mi south of Millis, MA.	85.9	1968, 1974-80, 1982-83, 1989-90	7-13-99 8-27-99 9-24-99	19.5 11.8 90.1
01104390 Stony Brook	Stony Brook Reservoir	Lat 42°22'36", long 71°16'55", Middlesex County, at upstream side of bridge on road to Weston Recycling Center, 20 ft upstream from Hobbs Brook and 0.2 mi south of Kendal Green, MA.	10.4	1997-98	10-28-98 11-23-98 1-21-99	4.81 7.11 35.2
01104405 Hobbs Brook	Cambridge Reservoir	Lat 42°26'11", long 71°16'12", Middlesex County, 100 ft upstream of bridge on Mill Street, 120 ft upstream from Cambridge Reservoir and 1.9 mi northeast of Lincoln, MA.	2.16	1997-98 ^{a,b}	11-19-98 1-26-99 4- 9-99	.86 8.26 2.50
01104410 Unnamed Tributary #1	do.	Lat 42°26'15", long 71°15'53", Middlesex County, on dirt road, 300 ft east of power lines, 500 ft upstream from Cambridge Reservoir and 2.1 mi southwest of Lexington, MA.	.35	1997-98 ^{a,b}	11-19-98 1-26-99 4- 9-99 4-16-99	.08 .96 .47 .30
01104415 Unnamed Tributary #2	do.	Lat 42°26'09", long 71°15'38", Middlesex County, 250 ft upstream of Lincoln Street, 270 ft upstream from Cambridge Reservoir and 1.9 mi southwest of Lexington, MA.	.41	1997-98 ^{a,b}	11-19-98 1-24-99 1-26-99 4- 9-99	.06 9.39 1.05 .31
01104420 Unnamed Tributary #3	do.	Lat 42°25'11", long 71°15'29", Middlesex County, 20 ft downstream of culvert on State Highway 128, 1,700 ft upstream from Cambridge Reservoir and 2.1 mi southwest of Lexington, MA.	.73	1997-98 ^{a,b}	11-20-98 1-24-99 1-26-99 4- 9-99	.59 8.15 2.57 1.10

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites October 1998 through September 1999--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
<i>CHARLES RIVER BASIN--Continued</i>						
01104433 Unnamed Tributary #1	Hobbs Brook	Lat 42°23'28", long 71°16'18", Middlesex County, at culvert on Lexington Street, 1,700 ft upstream from Hobbs Brook and 1.0 mi northeast of Kendal Green, MA.	0.42	1998	10-29-98	0.14
01104440 Hobbs Brook	Stony Brook	Lat 42°22'39", long 71°16'52", Middlesex County, 10 ft upstream of railroad bridge, 400 ft upstream from Stony Brook and 0.2 mi south of Kendal Green, MA.	.42	1997-98 ^{a,b}	11-20-98 1-26-99 4- 9-99	30.2 6.77 2.28
01104455 Unnamed Tributary #1	do.	Lat 42°22'21", long 71°16'15", Middlesex County, 20 ft downstream of culvert on ramp from southbound lane of State Highway 128 to State Highway 20, 800 ft upstream from Stony Brook and 1.8 mi west of Waltham, MA.	.48	1998 ^{a,b}	11-23-98 12-16-98 1-24-99 1-24-99 4- 9-99	0.10 .12 5.85 13.7 .48
01104460 Stony Brook	Stony Brook Reservoir	Lat 42°22'08", long 71°16'16", Middlesex County, 200 ft downstream of State Highway 20, 1,000 ft upstream from Stony Brook Reservoir and 1.8 mi west of Waltham, MA.	22.0	1997-98 ^{a,b}	11-23-98 1-26-99 4- 9-99 4-16-99	37.9 87.5 20.5 18.5
01104475 Unnamed Tributary #1	do.	Lat 42°21'16", long 71°16'07", Middlesex County, at bridge on Summer Street, 500 ft upstream from Stony Brook Reservoir and 1.9 mi southeast of Weston, MA.	.85	1998	10-29-98	.47
<i>WEYMOUTH FORE RIVER BASIN</i>						
01105583 Monatiquot River	Weymouth Fore River Basin	Lat 42°13'15", long 70°58'43", Norfolk County, at Commercial Street, 0.2 mi upstream from mouth at East Braintree, MA.	--	--	6-23-99 7-23-99 8-24-99	0.55 5.65 .81
<i>WEYMOUTH BACK RIVER BASIN</i>						
01105612 Weymouth Back River	Weymouth Back River Basin	Lat 42°12'56", long 70°55'25", Norfolk County 0.2 mi upstream from mouth, 0.2 mi downstream from Broad Street at East Weymouth, MA.	--	--	5-21-99 6-23-99 7-23-99 8-23-99	7.87 .54 1.80 .93
<i>WEIR RIVER BASIN</i>						
01105642 Weir River	Boston Harbor	Lat 42°14'36", long 70°51'36", Norfolk County, upstream of bridge at Route 3A near Hingham, MA.	--	--	6- 2-99 6-22-99 7-24-99 8-25-99	11.2 3.64 2.56 1.49
<i>PAWTUXET RIVER BASIN</i>						
01115110 Huntinghouse Brook	Regulating Reservoir	Lat 41°50'48", long 71°36'44", Providence County, at Elmdale Road, 1.6 mi northwest of North Scituate, RI.	6.31	1993-98	1- 6-99 3- 5-99 5-21-99 6-18-99 9-13-99	14.4 35.1 11.5 .55 .42
01115114 Rush Brook	do.	Lat 41°50'15", long 71°36'45", Providence County, near Elmdale Road, 1.5 mi northwest of North Scituate, RI.	6.31	1993-98	1- 6-99 3- 5-99 5-24-99 6-18-99 9-14-99	12.6 22.9 18.9 .27 .41
01115120 Unnamed Tributary	Scituate Reservoir	Lat 41°49'53", long 71°36'34", Providence County, at State Highway 6, 1.2 mi west of North Scituate, RI.	.42	1994-98	6-18-99 9-14-99	0 0

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites October 1998 through September 1999--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
<i>PAWTUXET RIVER BASIN--Continued</i>						
01115180 Brandy Brook	Scituate Reservoir	Lat 41°49'10", long 71°35'11", Providence County, at State Highway 116, 0.9 mi south of North Scituate, RI.	1.59	1993-98	11-18-98 1- 6-99 3- 8-99 5-24-99 6-17-99 9-14-99	2.41 3.56 4.81 3.32 .62 3.48
01115183 Quonapaug Brook	do.	Lat 41°47'51", long 71°24'53", Providence County, at State Highway 116, 2.4 mi south of North Scituate, RI.	1.96	1993-98	11-20-98 1- 6-99 3- 8-99 5-24-99 6-17-99 9-14-99	1.61 4.31 7.59 9.29 .24 1.72
01115184 Spruce Brook	do.	Lat 41°47'19", long 71°37'14", Providence County, 0.2 mi south of State Highway 14, 3.5 mi southwest of North Scituate, RI.	.30	1994-98	11-18-98 1- 6-99 3- 3-99 5-12-99 6-16-99 9-14-99	1.23 3.00 6.12 1.54 .70 .27
01115185 Windsor Brook	Ponaganset River	Lat 41°50'10", long 71°43'23", Providence County, at Windsor Road, 1.3 mi northwest of South Foster, RI.	--	1993-94, 1998	11-20-98 1- 7-99 3- 3-99 5-21-99 6-18-99 9-13-99	3.24 7.37 21.3 6.03 .06 .28
01115190 Dolly Cole Brook	Barden Reservoir	Lat 41°49'20", long 71°42'03", Providence County, at Old Danielson Pike at South Foster, RI.	5.07	1993-98	11-19-98 1- 7-99 3- 3-99 5-21-99 6-18-99 9-13-99	3.74 13.0 30.0 5.74 .22 .09
01115265 Hemlock Brook	do.	Lat 41°47'26", long 71°41'57", Providence County, at King Road, 1.2 mi northeast of Foster Center, RI.	--	1996-98	11-20-98 1- 7-99 3- 8-99 5-21-99 6-17-99 9-13-99	8.32 22.2 26.0 19.1 .45 5.01
01115280 Cork Brook	Scituate Reservoir	Lat 41°48'14", long 71°39'01", Providence County, at Rockland Scituate Road, 0.8 mi northeast of Crazy Corners, RI.	1.91	1993-98	3- 8-99 5-12-99 6-18-99 9-14-99	7.76 1.68 .33 .17
01115297 Wilbur Hollow Brook	Barden Reservoir	Lat 41°45'53", long 71°38'10", Providence County, at Old Plainfield Pike, 2.2 mi southeast of Rockland, RI.	4.45	1992-98	11-20-98 1- 7-99 3- 3-99 5-12-99 6-16-99 9-14-99	3.31 8.34 24.8 3.92 .82 4.84
01115500 Pawtuxet River	Narragansett Bay	Lat 41°43'58", long 71°33'01", Providence County, near Fairground Way, at Fiskeville, RI.	102	1915-25 ^a , 1986-87 ^d , 1996-98	6-16-99	23.2

See footnotes at end of table

Discharge measurements made at miscellaneous sites October 1998 through September 1999--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
CONNECTICUT RIVER BASIN						
01171320 Fort River	Connecticut River	Lat 42°19'59", long 72°34'44", Hampshire County at Bay Road bridge (Route 47), at Hadley, MA.	55.8	1973	8-25-98 10-10-98 10-16-98 2-11-99 3- 3-99 4-28-99 6-25-99 8- 6-99 8-18-99 9- 1-99	12.6 9.57 98.3 116 267 44.0 6.89 1.52 8.71 4.76
01178000 Mill River	do.	Lat 42°05'39", long 72°34'03", Hampden County on right bank 100 ft upstream of Hancock Street bridge, at Springfield, MA.	33.2	1939-51 ^a 1952 1972-73	8-25-98 9-10-98 10-16-98 1- 9-99 2-11-99 3- 2-99 3-11-99 4-28-99 6-18-99 8- 6-99 8-18-99 9- 1-99	18.0 18.9 41.5 113 43.5 95.8 50.8 31.9 20.0 12.5 13.7 10.2

^a Operated as a continuous-record gaging station.^b Operated as a continuous-record surface-water quality station 1998.^c Approximate.^d Data not published in 1986-87 annual data report.